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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,861	06/26/2003	Masahiro Ishii	116371	1443
25944	7590 02/24/2006		EXAMINER	
OLIFF & BERRIDGE, PLC			GRAINGER, QUANA MASHELL	
P.O. BOX 19928 ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER
	·- <b>,</b> · · - · · - · - · ·		2852	

DATE MAILED: 02/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/603,861	ISHII ET AL.				
		Examiner	Art Unit				
		Quana M. Grainger	2852				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
2a) <u></u> ☐	Responsive to communication(s) filed on <u>08</u> This action is <b>FINAL</b> . 2b) T Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. wance except for formal mat		ne merits is			
Disposition of Claims							
4) ⊠ Claim(s) 1-19 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) ⊠ Claim(s) 16 is/are allowed.  6) ⊠ Claim(s) 1-3,6-9,11,12,15,17 and 18 is/are rejected.  7) ⊠ Claim(s) 4-5,10,13-14,19 is/are objected to.  8) □ Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers						
10)	The specification is objected to by the Examing The drawing (s) filed on is/are: a) and a Applicant may not request that any objection to the Replacement drawing sheet (s) including the corrupt to be oath or declaration is objected to by the	ccepted or b) objected to he drawing(s) be held in abeya ection is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 C				
Priority u	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2)  Notice 3)  Inforn	e(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 No(s)/Mail Date	Paper No(	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PT	<sup>-</sup> O-152)			

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-3, 6-9, 11-12, 15, and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe et al. (6,006,050) in view of Hayashi. Watanabe et al. teaches performing a calculation on the developer remaining amount after warm-up (figure 6; column 10, lines 16-46; column 11, lines 15-20). Yoshinori does not discuss a display means, which is normally conventional on an image forming device.

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Hayashi teaches a display (figure 8). It would have been obvious to one having ordinary skill in the art at the time the invention was made to use the teaching of Hayashi with the image forming device of Yoshinori since it teaches a conventional display means for a conventional image forming device.

Watanabe et al. does not teach the claimed toner or a cleaner for the detector. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to select the appropriate toner, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416. In addition, the examiner takes official notice that a cleaner for detector in a developing device is well known in the art. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a cleaner with the detector of Watanabe et al. to obtain a clean detector to ensure proper detector readings.

#### Allowable Subject Matter

4. Claims 4-5, 10, 13-14, and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claim 16 is allowed.

#### Response to Arguments

5. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

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#### Prior Art

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Horikawa teaches a cleaner for a toner detector.

### **Contact Information**

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quana Grainger whose telephone number is 571-272-2135. The examiner can normally be reached on weekdays between the hours of 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur Grimley can be reached on 571-272-2136. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Quana Grainger Primary Examiner

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